FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number: 3235-028									
Estimated average burden									
hours per response	: 0.5								

Instruc	tion 1(b).			Filed							ities Exchang ompany Act o		f 1934						
1. Name and Address of Reporting Person*  KEITHLEY JOSEPH P					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS								5. Relationship of Re (Check all applicable X Director			•			
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 11/10/2022								-		Office	er (give title		Other (s below)	specify
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Street) BEVER			1915										Li	ne) X		filed by One filed by Mo		•	
(City)	(St		Zip)									<del></del>							
			I - No					Acc	_	d, Dis	sposed of	-							
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/					Execution Date		,	Transaction Disposed (Instr. 8)		4. Securities Disposed Of	curities Acquired (A) osed Of (D) (Instr. 3, 4		d 5)	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
											Amount	(A) or (D)	Price	- 1	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock 11/10/20					022			S		2,000	D	\$74.0	2(1)	21	1,375(2)		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed tion Date, n/Day/Year)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbe of Title Shares		nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (instr. 4)		0. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

- 1. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$74.00 to \$74.08, inclusive. The reporting person undertakes to provide to Axcelis Technologies, Inc., any security holder of Axcelis Technologies, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
- 2. Of the shares held as of November 10, 2022, 2,689 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

Lynnette C. Fallon, as attorney 11/10/2022 in fact for Joseph P. Keithley

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.